

Cumulative Index 2001

VOLUME 13

March	CRITICAL CARE EDUCATION, pages 1-150
June	PAIN MANAGEMENT IN CRITICAL CARE, pages 151-334
September	REHABILITATION AFTER CRITICAL ILLNESS, pages 335-474
December	TRANSLATING RESEARCH INTO PRACTICE, pages 475-631

Note: Page numbers of article titles are in **boldface** type.

- Acetaminophen, for pain, 215
 - dosage of, 216
 - in children, 287-288
- Acute care nurse practitioner, as educator, 17
 - education programs for, 19-20
- Addiction, to medication, defined, 277
 - to opioids, fear of, 198, 211, 213
- Adolescent, pain in, expression of, 283
- Adoption, in evidence-based practice, extent of, 597-598
 - guideline for, 597-598
 - rate of, 596-597
 - variables in, nurse and physician adherence to, 597-599
 - nurse and physician characteristics, 599
 - organizational, 598-599
- of evidence-based research, types in, believer, 483
 - legal eagle, 483
 - skeptics, 482-483
 - 9 to 5's, 483
- Adult learning, assessment of, 88
 - teachable moments in, 88-89
 - theories of, 1-4, 87-88
 - andragogy, 3
 - behavioral, 2
 - cognitive, 2-3
 - core principles of, 87
 - Dreyfus model, 3-4
 - phenomenology, 2-4
 - summaries of, 2
- Advance directives, in end-of-life care, 580
- Advanced practice nurse, in patient and family education, 86-87
 - preparation of, preceptor in, 123-124
- Advocacy, in critical care and rehabilitation, 371
- Aerobic exercise program, for COPD, 384
- African-American culture, cardiac rehabilitation and, 392
- Agency for Health Care Policy and Research, pain management and, Acute Pain Management Guideline for, 312-313
 - standards and guidelines for, 157
- Agitation, in surgical and procedural pain, adverse effects of, 237-238
 - pharmacologic management of, 238-239
- Airway, clearance of, in COPD, 380
- Akinetic mutism, after severe brain injury, 423-424
- Alcohol, abuse of, orthopedic trauma and, 439-440
 - use of, in COPD, 381
- American Association of Critical Care Nurses (AACN), pain management and, standards and guidelines for, 158
 - position on unlicensed assistive personnel, 107
- American Geriatrics Association, pain management and, standards and guidelines for, 157
- American Nurses Association, position on unlicensed assistive personnel, 106-107
- American Pain Society (APS), pain management and, guidelines for, 313
- American Society of Anesthesiologists (ASA), pain management and, standards and guidelines for, 157
- Americans with Disabilities Act (ADA) of 1980, overview of, 456
- Analgesic(s), absorption of, 207-208
 - adjuvant, 203-205
 - distribution of, 208
 - excretion of, 208
 - in multimodal balanced analgesia, 196-203
 - in pain management, baseline serum level and, 275
 - maintenance level of, in cancer pain, 272
 - titration to, 276-277
 - metabolism of, 208
 - nonopioid, 196-197, 214-217
 - mechanism of action, 197

Analgesic(s) (*Continued*)

- opioid, 197-203, 208-214
 - mechanism of action, 197
 - reversal agent for, 197
 - pharmacodynamics of, 207-208
 - pharmacokinetics of, 207-208
 - preemptive, 173-174
- Andragogy, 2-3, 87
- Angina pectoris. *See* *Chest pain, acute cardiac*.
- Anterior lateral system, of spinal cord, in pain transmission, 171, 173
- Anticholinergic agents, for COPD, 382
- Anticoagulants, following orthopedic trauma, 437
- Anxiety, following spinal cord injury, 408
 - in surgical and procedural pain, 238
 - pharmacologic management of, 238-239
 - reduction of, therapeutic touch and, 358-359
- Anxiety-pain cycle, 151-153
- Architectural barriers, to social integration, of persons with disabilities, 457
- Aspirin, for cardiac chest pain, 265
 - for pain, 214-215
- Atrophy, muscular, spinal cord injury and, 407-408
- Attitude(s), intrapersonal, 64-65
 - practitioner, in pain assessment, 321-322
 - pain management and, 298
 - toward persons with disabilities, 456-457
- Autonomic dysreflexia, in spinal cord injury, 405
- Autonomy, in critical care and rehabilitation, 343-344
- Baccalaureate education, clinical nurse specialist, as educator, 16-17
 - for critical care practice, 17-19
 - Basic Knowledge Assessment Tool in, 19
 - content of, essential, 13-15, 17
 - course work for, 14-15
 - creative education-partnership models in, 18
 - fellowship programs in, 19
 - simulation models in, 18-19
- Bacteria, resistant, infection and colonization with, 367
- Balanced analgesia. *See* *Multimodal balanced analgesia (balanced analgesia)*.
- Barrier(s), architectural, persons with disabilities and, 457
 - to patient and family education, cultural and linguistic, 85-86
 - environmental stress, 85
- β -Blockers, for cardiac chest pain, 266-267
- Behavior, in pain assessment, in children, 284
- Behavioral learning theory, 2
- Behavioral Pain Rating Scale (BPRS), studies of, 183, 185
- Belief(s), cultural, toward persons with disabilities, 457
 - nurses', in pain assessment, 182-183
 - patient, in culturally competent care, 523
- Beneficence, in critical care and rehabilitation, 342, 345
- Benzodiazepines, in balanced analgesia, 204
 - in opioid discontinuation, in children, 287
 - in surgical and procedural pain, 238-239
 - reversal agent for, 204
- Bladder, in spinal cord injury, lower motor neuron paralysis of, 406-407
 - upper motor neuron paralysis of, 406
- Body image disturbance, in case management study, 447

- Bowel, altered function of, in critical care unit, 368
 - neurogenic, in spinal cord injury, 407
- Bowel regimen, in spinal cord injury, 407
- Bradycardia, in spinal cord injury, 404-405
- Brain. *See* *Severe brain injury (SBI)*.
- Brain death, definition of, 422
- Breakthrough pain, management of, in cancer, 272
 - opioids for, 198
 - short-acting analgesics for, 276
- Breathing, in COPD, pursed lip, 380
 - self-management of, 380-381
- Bronchodilators, in COPD, 381-382
- Cancer, pain management in, 272
- Cardiac enzymes, diagnostic, in chest pain, 264
- Cardiac function, in rehabilitation, 370-371
 - in spinal cord injury, 403-405
- Cardiac rehabilitation, **389-397**
 - definition of, World Health Organization, 390
 - family in, 391-394
 - education of, 391-392
 - goals of, 390-391
 - historical evolution of, 389-391
 - issues in, future, 395-396
 - patient teaching in, 391-392
 - psychosocial issues in, 394-396
 - research in, 395-396
 - return to work and, 395
 - risk factor identification and modification in, 392-395
 - spouse support in, 395
- Cardiopulmonary resuscitation, family presence during, **569-575**
- Cardiovascular system, in assessment, of chest pain, 260
- Caregiver burden, in community re-entry, after critical illness, 455
- Care giver error, in critical care unit, 368
- CareMaps, for pain management, 302-303
- Case incident, as learning strategy, 8-10
- Case studies, as learning strategy, 8-10
- Catastrophic injury, case management of, **443-448**
 - assessment and records review in, 444
 - case study of, 444-447
 - family meeting in, 444-445
 - nursing diagnoses and care plan in, 446-447
 - rehabilitation nurse case manager in, activities of, 447
 - community re-entry and, 447
 - role of, 445
 - role clarification tool in, 445
 - cost of, 443
- Categorical rating scale (CRS), in pain assessment, 183, 186, 188
 - studies of, 183-185
- Central pain mechanisms, brain processing of
 - nociceptive information, 174-176
 - central sensitization and, 172-175
 - dorsal horn neurons, 171
 - inhibitory, 174
 - in spinal cord, 171-172
- Central sensitization, defined, 172
 - in pain, 172-174
- Cerebral death, definition of, 422
- Change agents, in evidence-based practice, 323, 594
 - in skin care, 559-560, 562

- Chat rooms, in learning, 77-78
- Chest, blunt trauma to, epidural analgesia for, 250-251
 nerve blocks in, intermittent intercostal, 253
 interpleural catheters, 253
- Chest pain, acute cardiac, **259-269**
 assessment of, 259-265
 treatment of, 265-267
 cardiac (angina pectoris), 260-261
 coronary risk factor modification and, 267
 management of, risk stratification-based, 266-267
 oxygen for, 266
 pharmacologic agents for, 265-266
 diagnosis of, 263-265
 chest radiograph in, 263-264
 electrocardiogram in, 263
 in diabetic person, 164
 laboratory values in, 264
 risk stratification in, 264-265
 differential diagnosis of, 260-263
 physical examination in, 263
 noncardiac, 262
- Chest radiography, diagnostic, in chest pain, 263-264
- Children, pain in, assessment and management of, **281-295**
 assessment of, 283-285
 behavioral, 284-285
 in neurologic impairment, 285
 denial of, 282
 expression of, developmental differences in, 282-283
 management of, 283-291
 nonopioid analgesics for, 287-288
 nonpharmacologic management of, distraction, 290-291
 guided imagery, 290
 opioids for, 285-287
 administration of, 288-289
 discontinuation of, 287
 physical dependence and, 287
 pharmacologic agents for, 285-289
 practice implications of, 291
 procedural, local anesthetics for, 290
 role of parents in, 289-290
 recognition and treatment of, barriers and misconceptions to, 282-283
 unrelieved, effects of, 281-283
- Choline magnesium trisilicylate (Trilisate), for pain, in children, 288
- Chronic obstructive pulmonary disease (COPD), activity and, 383-384
 breathing in, 380-381
 energy conservation in, 384
 etiology of, 375-376
 exercise prescription for, 383-384
 family education and, 382-383
 hospitalization for, 375
 love, belonging, sexuality in, 384
 medical management of, 381-382
 patient profile in, 376
 pulmonary function in, assessment of, 378-380
- Chronic pain, analgesics for, dosing of, titration to individual comfort, 276-277
 general principles in, 276
 assessment of, 273-274
 pain and medication history in, 274
 dosing of, around-the-clock, 276
- following traumatic injury, case study of, 254-255
 development of, 254
 management of, 253-255
 types of, 254
- in cancer, management of, 272
 management of, in critical care settings, **271-280**
 noncancer, description of, 272
 opioids for, equianalgesic dosing of, 277-278
 pharmacologic management of, postdischarge, 278
 tolerance, physical dependence, addiction and, 277
versus acute pain, assessment differences, 274-275
 with an acute pain episode, case history, 275-276
- Clinical pathways, for pain management, 302-303
 research incorporation in, 59
- Clinical protocols, for pain management, 301-302
- Cognitive learning theory, 2-3
- Cold, for pain, 226-227
- Coma, after severe brain injury, 422-423
 emergence from, demographic variables in, 424
 diagnostic and prognostic indicators for, 424-426
 neuroimaging studies and, 425
 neurologic signs and, 424-425
 neuromedical markers and, 425
 prognosis for, 427-428
 psychologic ratings and, 425-427
 severity indices and, 425
 outcomes in, 427
- Coma Near Coma Scale, and emergence from coma, 425-426
- Coma Recovery Scale, and emergence from coma, 425-427
- COMFORT scale, for pain assessment, in children, 285
- Communication, culturally sensitive, 523, 526
 accents and tones in, 67
 eye contact in, 67-68
 vocabulary in, 67
 in end-of-life care, 579
 listening in, 526
 pain response and, 155
 patient, in pain assessment, 182
 with survivors and families, 353
- Community re-entry, after critical illness, **449-461**
 and impairment, disability, handicap, 449-450
 components of, 449
 educational needs in, 452
 emotional challenges in, 453-455
 functional restoration for, 452-453
 health maintenance and promotion in, 450-452
 interdisciplinary team in, 452-453
 life skills for, 457-459
 medication management in, 451
 needs for, educational programs, 459
 housing, 457-458
 transportation, 458
 vocational opportunity, 458-459
 Neumann Systems Model and, 449-451
 nursing interventions in, community-based, 454-455
 rehabilitation nurse case manager and, 447
 self-help groups and, 454
 skilled services in, 450-451
 social issues in, attendant care, 455-456
 family, 455
 social integration, 456-457
 stressors in, 453-454
 support groups and, 454
 technologic assistance in, 451-452

- Competency, nurse, in pain management, 159-160
- Computer-assisted education, **73-81**
 attitudes toward, 79
 evaluation of materials in, 78-79
 in patient teaching, 80
 Internet in, chat rooms and, 77-78
 distance learning and, 75-76
 multimedia in, 73-74
 interactive, 74-75
 technical difficulties with, 79-80
 virtual reality in, 78
 web-enabled, 76-77
- Concept mapping, in learning, 7-8
- Conflict resolution, in preceptor training, 133-134
- Confusion, postoperative, in elderly patient, 417
- Consent, to therapeutic touch, 360
- Consortium, definition of, 28-29
- Continuing education, categories of, 26
 components of, 26-28
 participants, 26-27
 place, 27
 price, 27-28
 product, 27
 promotion, 27
 definition of, 25-26
 financial concerns of, cost reduction techniques, 28
 diminishing financial resources, 28
 program costs, 28
 goals of, 26
 mentoring in, 124-126
 principles of, 25-26
 standards for, 26
- Contractures, spinal cord injury and, 408
- Control, consortium and, 33
 survivors and, 351
- Contusion, pulmonary, from blunt chest trauma, 437-438
- Coping, after critical illness, 453
 definition of, 453
- Coping strategy(ies), for nursing stress, 466-468
 for stress, delegation of tasks, 467
 music, 467
 quiet time, 467-468
 supportive colleagues, 467
- Cost reduction, in continuing education, 28
 in critical care consortium, 32
- Crisis, patient and family, 84-85
- Critical care consortium, **25-34**. See also *Continuing education; Middle Tennessee Critical Care Program Consortium*.
 advantages of, 32
 cost reduction, 32
 participant interaction, 32
 program enhancement, 32
 strengthened community spirit, 32
- Baltimore, 31
 consortium definition and, 28-29
 disadvantages of, 32-33
 control issues, 33
 inability to meet diverse learning needs, 32-33
- Emory University, nursing school at, 31
 guidelines for development of, 33
 in continuing education, 25-29
 Middle Tennessee, 29-31
- Critical care education. See also *Parkland Health and Hospital System*.
 controversies in, 21
 future of, 21-22
 generalist *versus* specialist, 21
 Parkland Health and Hospital System models for, **35-52**
 internship in critical care and trauma, 36-40
 residency in critical care, 40-45
 preceptors in, 21
- Critical care nurse specialist certification, 17
- Critical care practice, common routines in, challenge to, 55
 questions in, research answers to, 55-56
- Critical care procedures, updating of, 59
- Critical care research
 clinician involvement in, **53-62**
 integration into clinical practice, barriers to, 56, 60-61
 overcoming of, 56, 60-61
 latest, incorporation into clinical pathways, 59
 Internet resources for, 60
 solving clinical practice questions or issues with, 59-60
 updating nursing practice with, 58-61
 strategies to attract clinician interest in, 53-58
 address practice questions with research, 55-56
 challenge common practice routines, 55
 conduct clinically relevant research study, 56-58
 emphasis on latest research, 54-55
 "walking the talk" of evidence-based practice, 54-55
- Critical care research study, clinically relevant,
 identification of questions for, 56-58
 mentoring the team and, 58
 projects to ensure clinician success, 56
- Critical thinking. See also *Simulation*.
 application in critical care practice, 95
 critical thinkers and, attributes of, 94
 history and definitions of, 94-95
 questions for, in preceptorship training, 134
 teaching of, 95-100
 simulation in, **93-103**
versus traditional teaching, 96
- Crying, requirement of oxygen, increased vital signs
 expression, Sleeplessness (CRIES) scale, for
 assessment of postoperative pain, in infants, 284-285
- Cultural and ethnic diversity. See also *Cultural competence; Cultural sensitivity*.
 cultural competence and, 64
 foreign-educated nurse and, educational preparation
 of, 70
 language differences and, 69-70
 special needs of, 68-70
 in critical care education, **63-72**
 of nursing staff, intrapersonal attitudes and, 64-65
 of registered nurses, 63
 social organization and, authority figures in, 66
 communication in, 67
 family in, 65-66
 group *versus* individual needs in, 66
 time orientation in, 67-68

- Cultural competence, 64, **521-530**
 as challenge of, 522
 as process, egalitarian relationship in, 523
 knowledge in, 522-523
 research in, 523-524
 culture of critical care and, 522
 definition of, 522
 language in, 528
 model of care in, 527-528
 awareness in, 527
 cultural skill in, 527
 encounter in, 528
 knowledge in, 527
 self-knowledge in, 527
 nursing values and, Western middle class, 521-522
 patient assessment and, accommodation of cultural practices in, 523, 525
 beliefs in, 523
 communication in, 523, 526
 personal space in, 526
 social and family structure in, 526
 time concept in, 526-527
 philosophy of culture and, 521
 practice implications of, 528
 research in, 524
 strategies for, 528
 Cultural diversity, cardiac rehabilitation and, 391-392
 Culturally competent care, patient cultural practices in, 523, 525
 Cultural sensitivity, incorporation in critical care education, 71
 minority nurses and, 70-71
 Culture, ethnic, pain response and, 154-155
 of critical care, critically ill patient and, 154-155
 pain management and, **151-166**
 evidence-based practice in, 156-157
 family education in, 156
 nurse and, 156-158
 nurse competency in, 159-160
 nursing practice for, 158
 patient education and, 156
 process and outcome management and, 160-161
 standards and guidelines for, 157-158
 unit culture in, 158-161
 unit leadership in, 158-159
 values clarification in, 159
 of intensive care unit, 522
 end-of-life care and, 577, 581
 Cutaneous interventions, for pain, heat and cold, 225-226
 massage, 227
 transcutaneous electrical nerve stimulation, 227-228
 vibration, 226-227
 Cyclooxygenase 2 inhibitors, for pain, in children, 288
 in intensive care, 216-217
- Debridement, of pressure ulcers, research evidence for, 553
 Decision making, nurse involvement in, 371-372
- Deep venous thrombosis (DVT), hip fracture
 rehabilitation and, 417
 in spinal cord injury, 405
 risk of, following orthopedic trauma, 436
 Depression, in orthopedic trauma, 439
 pain experience and, 155-156
 Dexmedetomidine, for postoperative sedation, 217
 Dextromethorphan, adjuvant use of, with opioids, 236
 Diabetes mellitus, management of, in cardiac rehabilitation, 394
 Disability, definition of, 450
 Distance learning, 75-76
 Distraction, defined, 222
 for pain management, in children, 290-291
 techniques for, 222-223
 for procedural pain, 237, 239
 for surgical pain, 237, 239
 Dorsal horn neurons, in central sensitization, 171, 173
 Dreyfus model, of skill acquisition, 2-4
 Drug abuse, orthopedic trauma and, 439-440
- Elderly patient, cardiac rehabilitation of, teaching in, 391
 Electrocardiogram (ECG), in chest pain, 263
 Elimination, in rehabilitation, 371
 Emotion, of survivors, 351, 353
 Empowerment, of patient, in pain treatment, 322
 End-of-life care, in intensive care unit, **577-585**. See also *Good death*.
 advance directives in, 580
 cure and, 577-578
 deficiencies in, 577
 economics and, 578
 good death and, definition of, 578-579
 provision of, 579-580
 modern technology and, 578
 nurses' issues in, 577-578
 palliative care in, models of, 581-583
 role of, 580
 of dying patients, elements required in, 581
 Environment, of critical care, 151
 anxiety-pain cycle and, 151-153
 family-patient interaction and, 154
 noise in, 153
 sleep deprivation and, 153
 Epidural analgesia, case study, 252-253
 contraindications to, 251
 in blunt trauma, 250-251
 in children, 289
 opioid, 213-214, 250-252
 adverse effects of, 214
 postoperative, comparison with systemic opioids, 251
 side effects of, 251-252
 Equianalgesic dosing, 209, 211, 277-278
 Ethical dilemmas, ethical principles in, 342-346
 Ethical principle(s), in rehabilitation, autonomy, 343-344
 beneficence, 342, 345
 informed consent, 344
 justice, 343, 345
 nonmaleficence, 343, 345

- Ethics, in critical care and rehabilitation, case examples of, 344-346
 in critical care *versus* rehabilitative care, 342
- Ethnocentrism, 64
- Evidence-based practice, adoption in, extent of, 597-598
 guideline for, nurse and physician adherence to, 597-598
 rate of, 596-597
 variables in, nurse and physician characteristics, 599
 organizational, 598-599
- barriers to, 587-588, 598
- communication in, change champions in, 594
 core groups for, 594
 education in, 591
 opinion leaders in, 591, 594
 outreach in, 593-595
- critical care nurse and, 156-157
- definition of, 476, 497, 587
- description of, 319
- innovation in, diffusion of, 588
 discussions of change champions and opinion leaders and, 595
 feedback and audit of, 595
 focus groups for, 595
 guidelines for, 589
 nature and credibility of, 589
 performance gap measurement of, 595
 practice prompts for, 589, 591-592
 trial of, 595
 user characteristics in, 595-596
 users of, 595-596
- in nursing, 497-498
- in pain management, **319-327**
 barriers to, identification and removal of, 322-324
 knowledge, attitudes, practice and, of practitioners and patients, 321-322
 organizational support of, 320-321
 support of, data collection and documentation in, 324-325
- in pressure ulcers, prevention and management of, **547-554**, 556-567
- in response to nursing shortage, **511-519**
- in skin care, University of Colorado evidence-based practice model, 556-567
- interventions in, 588-590
- Iowa model for. *See Iowa model of evidence-based practice.*
- Iowa model for quality care, **497-509**
 research utilization and, 498
 social system and, 596
 translation into practice, **587-604**
 translation of research into, **587-604**
- Exercise, in cardiac rehabilitation, history of, 390
- Exercise prescription, for COPD, 383-384
- Exercise training, in cardiac rehabilitation, 392
- Eye contact, culture and, 67-68
- Faces, legs, activity, cry, consolability (FLACC) scale, for pain assessment, in children, 284
- Faces scale, for pain assessment, 187
 in children, 283-284
- Family. *See also Patient and family education.*
 education of, by ICU nurse, 156
 in COPD, 382-383
 in cardiac rehabilitation, 391-394
 in community re-entry, 455
 in culturally competent care, 526
 of dying patient, 582, 583
 pain management and, 154
 participation in education, 90
- Family-patient interaction, pain management and, 154
- Family presence, benefits of, 572
 definition of, 570
 during cardiopulmonary resuscitation, **569-575**
 case examples of, 569-570
 guidelines for, 570
 literature on, family members in, 570-571
 health care providers in, 571
 patients in, 572
 research needs in, 572-573
 litigation and, 572
 outcomes of, prayer influence on, 572-573
 policy for, implementation of, 573-574
- Fellowship programs, for critical care practice, 19
- Fentanyl, for procedural pain, in children, 286
 in traumatic injury pain, 247
 on intensive care unit, 209
- Fentanyl transdermal patch (Duragesic), for chronic pain, 277
- Fertility, spinal cord injury and, 407
- Financial burden, in community re-entry, after critical illness, 455
- Financial issues, for survivors, 352
- Flumazenil (Romazicon), for benzodiazepine reversal, 204
- Fracture blisters, in orthopedic trauma, 435-437
- Gate control theory, of pain, 174
- Gender differences, pain and, tolerance of, 154
- Generalist education, *versus* specialist education, 21
- Good death, definition of, 578
 goals for, 578
 nurses' self-care and, 579-580
 prognosis and, 578-579
- GP IIb/IIIa inhibitors, for cardiac chest pain, 266-267
- Graduate nursing education. *See also Master's nursing education.*
 at Master's level, 13-15, 20
 mentorship in, 123-124
- Grief, following spinal cord injury, 408
- Guided imagery, for pain management, in children, 291
- Handicap, definition of, 450
- Heat, for pain, 226-227
- Hemorrhage, gastric, iatrogenic, 366
- Heparin, for cardiac chest pain, 265, 266
- Hip fracture, cognitive dysfunction and, 412
 femoral neck, 412-413
 incidence of, 411
 in elderly patients, rehabilitation following, **411-419**
 internal fixation for, 413, 416

- intertrochanteric, 413-414
 - osteoporosis-related, 412
 - predisposing factors for, 411-412
 - rehabilitation following, interdisciplinary team for, 415
 - safety inventory for elders and, 412
 - subtrochanteric, 413-414
 - total hip replacement for, 413, 415
 - types of, 412-414
- Humor, as distraction technique, 223
- Hypercapnia, in COPD, 381
- Hypotension, in spinal cord injury, 404
- orthostatic, 405
- Hypoventilation, in spinal cord injury, 402-403
- Hypovolemic shock, in spinal cord injury, 405
- Hypoxemia, in COPD, 381
- in spinal cord injury, 402-403
- Iatrogenesis, in critical care, rehabilitation and, **365-373**
- Iatrogenic disorder, definition of, 365
- Illinois State Nurse Practice Act, unlicensed assistive personnel and, 106
- Immobility, adverse consequences of, 366-367
- Impaired driver, orthopedic trauma and, 439-440
- Impairment, definition of, 450
- Infants, pain in, assessment of, 283
- Infection, iatrogenic, 367-368
- management of, in rehabilitation setting, 369-370
 - nosocomial, 367-368
 - prevention of, in COPD, 382
 - sources of, catheters, 368
- Infection control, in skin care, data from, 557-558
- Inflammatory response, and peripheral sensitization, in pain, 169-170
- mediators in, 169-170
- Informed consent, in critical care and rehabilitation, 344
- Innovation, in evidence-based practice, diffusion of, 588
- discussion of change champions and opinion leaders and, 595
 - feedback and audit of, 595
 - focus groups for, 595
 - performance gap measurement of, 595
 - trial of, 595
 - user characteristics in, 595-596
 - users of, 595-596
- Inservice education, 26
- Intensive care unit (ICU) syndrome, definition of, 366
- Interdisciplinary team, in community-based rehabilitation, 452-453
- in community re-entry, after critical illness, 452-453
 - in rehabilitation, 337-338
 - of hip fracture patient, 415
- International Association for the Study of Pain (IASP), pain management and, standards and guidelines for, 157
- Internet, as research tool, 60
- as teaching tool, 90-91
 - chat rooms and, 77-78
 - in continuing education, 75
 - in mentoring, 127
 - in patient and family education, 90-91
- Internship in critical care and trauma, Parkland Health and Hospital System, budgetary considerations in, 39-40
- course content topics in, 51-52
 - course requirements in, 38-39
 - curriculum design in, 37-38
 - evaluation methods in, 39
 - faculty and supervision in, 38
 - intern-staff nurse interface in, 38
 - objectives of, 36
 - participant learning objectives of, 46-50
 - recruitment and admission processes in, 36-37
 - structure of, 36-37
 - success of, 40
 - transition from intern to staff nurse and, 39
- Intraspinal analgesia, contraindications to, 251
- side effect of, 251-252
- Iowa model of evidence-based practice
- original model, utility of, 498-499, 501
 - revision of, 498, 500
 - adoption practice and, 506-507
 - alternatives to research evidence in, 506
 - evaluation of structure, process, outcome data and, 507
 - health care market changes and, 501
 - impetus for, 501-502
 - institution of change and, 507
 - pilot changes in practice and, 506
 - priority of topic and, 503
 - research in, critique and synthesis of, 504-505
 - insufficiency of, 505-506
 - retrieval of, and related literature in, 503-504
 - sufficiency of, 505
 - team in, 503
 - triggers in, 502-503
 - user feedback and, 501
- Joint Commission on Accreditation of Healthcare Organizations (JCAHO), pain management and, guidelines for, 157
- standards for, 157, 271, 300-301
- Justice, in critical care and rehabilitation, 343, 345
- Ketamine, adjuvant, in balanced analgesia, 204
- with opioids, 236
 - during painful procedures, 238-239
 - for intubated patients, 217
- Ketorolac, for pain, in children, 288
- in intensive care, 215-216
 - surgical and procedural, 236
- Knowledge, cultural, 527
- Laminae of Rexed, in pain, 171-172
- Language, cultural and ethnic diversity in, 69-70
- Learners, argumentative, 145
- high-attention, 145
 - resistant. *See Resistant learners.*

- Learning. See also *Resistant learners*.
 as transformation, 121
 experiential, 4-5
 incidental, 121-122
 mentor in, 121-122
 preferences in, assessment of, 4
 problem-based, 6-7
 resistance to, 137-140. See also *Resistant learners*.
 reasons for, 137-140
 strategies to reduce, 140-141
 creating a need, 143
 creating a positive first impression, 142
 dealing with resistant behaviors, 144-145
 developing human bond, 142-143
 formative evaluations in, 144
 giving learners sense of control, 143-144
 involving participants, 144
 program design and, 141-145
 Learning styles, experiential, 5-6
 Jungian description of, 4-5
 Learning theory. See also *Adult learning theory(ies)*.
 application to teaching strategies, **1-11**
 Level of consciousness, assessment of, for prognostic purposes, 429
 Lidocaine-prilocaine combination (EMLA), for
 procedural pain, in children, 290
 Listening, to survivors, 352-353
 Local anesthesia, adjuvant, in pain management,
 203-204
 for procedural pain, in children, 290
 for surgical pain, preemptive administration of,
 236-237
 in balanced analgesia, adverse effects of, 204
 long-acting, continuous subcutaneous administration
 of, 103-104
 Locked-in syndrome, after severe brain injury, 424
 Loss, survivors and, 351
- Massage, superficial, for pain, 227
 Master's nursing education, essentials of, 13-15, 20
 McGill Pain Questionnaire (MPQ), studies of, 183-184
 McGill Pain Questionnaire Short Form (MPQSF), in
 assessment, of pain, 188
 Mechanical ventilation, weaning from, opioids and,
 202-203
 Medication administration systems, automated, 298-299
 Medication history, in assessment, of chest pain, 260
 Mentor. See also *Mentoring*; *Mentorship*; *Preceptor*.
 adult student and, 122
 definition of, 120
 learning and, as link in, 121-122
 lifelong, 126-127
 role of, myths about, 119
 realities of, 119-120
 versus teacher, 122
 Mentoring. See also *Mentor*; *Mentorship*.
 definition of, 120
 in nursing, opportunities for, 127-128
 research on, 126-127
 Internet in, 127
 of teachers, 124
 relationship benefits in, 120
 versus preceptor relationship, 124
 women and, 120-121
- Mentorship. See also *Mentor*; *Mentoring*.
 as teaching strategy, **119-129**
 definition of, 120
 for business women, 124-125
 for continued learning, 124-126
 for transitioning in nursing, 125-126
 in academic setting, 122-124
 in nursing education, 122-123
 in undergraduate nursing education, 123
 in graduate nursing education, 123-124
 mentoring moments in, 127
 Meperidine (Demerol), contraindications to, in chronic
 pain, 277
 contraindication to, 199, 286-287
 danger of, 235
 Metered dose inhaler (MDI), in respiratory medication
 administration, 382
 Methadone, in opioid discontinuation, 287
 Methicillin-resistant *Staphylococcus aureus* infection,
 367
 Mexican-American culture, cardiac rehabilitation and,
 391-392
 Midazolam, for conscious sedation, 204
 Middle Tennessee Critical Care Program Consortium,
 current status of, administrative structure in,
 29-30
 evaluation structure in, 30-31
 financial structure in, 30
 description, purpose, objectives of, 31
 historical development of, 29
 Minimally conscious state (MCS), after severe brain
 injury, 423-424
 emergence from, 428
 Mobility, impaired, in case management study,
 446-447
 rehabilitation and, 370
 Morphine, continuous infusion, in infants, 286
 on intensive care unit, 208-209
 Morphine sulfate, for cardiac chest pain, 265,
 266
 Motor vehicle accidents, orthopedic trauma from,
 433
 prevention of, interventions for, 440
 spinal cord injury in, 399
 Movement, as distraction technique, 223
 Multimedia, in computer-assisted education,
 73-74
 interactive, 74-75
 Multimodal balanced analgesia (balanced analgesia),
 195-206
 for surgical and procedural pain, 234
 overview of, 195-196
 Musculoskeletal trauma, mechanisms in, 438
 rehabilitation following, 438-439
 Music, as distraction technique, 222-223, 225
 Myocardial infarction, study of African American,
 Korean, and white patients, 532-533
 patient sample in, 532-533
 risk factors in, 534-535
 subject demographics in, 533-534
 symptoms in, atypical, 532, 534-537
 comparison in African American, Korean, white
 patients, 531, 534-536
 importance of, 531
 racial differences in, **531-539**
 typical, 531, 534-537

- Nalbuphine, for pruritus, with epidural opioids, 214
- Naloxone (Narcan), for opioid reversal, 197, 202, 214, 235
 in respiratory depression, in children, 287
- Nerve blocks, for pain management, in trauma care, 253
 preoperative, in pain management, 203
- Neurogenic shock, in spinal cord injury, 403
- Neurotransmitters, inhibitory, in pain, 174-175
- Newborn, pain in, and future pain perception and behavior, 281-282
- Nitrates, for cardiac chest pain, 265
 topical, 267
- Nitroglycerin, for cardiac chest pain, 265
- Nociceptors, afferent fibers of, in pain transmission, 168-169
- Noise, pain and, 153
- Nonmaleficence, in critical care and rehabilitation, 343, 345
- Nonopioid analgesic(s), acetaminophen, 215
 adjuvant use of, 214
 aspirin, 214-215
 cyclooxygenase 2 inhibitors, 216-217
 dexmedetomidine, 217
 in critically ill patient, 196-197
 in traumatic injury pain, 248, 250
 ketamine, 204, 217
 nonsteroidal antiinflammatory drugs, 215-216
 tramadol, 217
- Nonsteroidal antiinflammatory drugs (NSAIDs), adverse effects of, 197
 for pain, chronic, 273
 in children, 288
 procedural, 236-237
 gastrointestinal adverse effects of, 248-249
 in balanced analgesia, 196
 in intensive care, 215-216
 dosing regimens for, 216
 side effects of, 215
- Nosocomial disorder, definition of, 365
- Numerical rating scale (NRS), in assessment, of pain, 183, 186-187
- Nurse-controlled analgesia, in children, 288-289
- Nurse practitioner, training of, preceptor/student relationship in, 123-124
- Nursing narratives, as learning strategy, 8
- Nursing practice, pain management and, pharmacologic interventions in, 158
- Nursing shortage, demographics in, 511-512
 evidence-based practice example, chief operating officer in, 512
 faith-based spirit committee in, 513-514
 operations team meeting in, 513
 organizational culture and, 511-512
 recruitment and retention in, 514
 action plans and, 517
 committee for, 514
 competency-based compensation program for, 514, 516-517
 education and, 515
 goals in, 515
 literature review for, 515-516
 mind-mapping in, 515
 patient-care focus and, 516-517
 quality of work life and, 517
 strategic plan for, 514-518
 turnaround plans in, 512-513
- Nutrition, altered, in case management study, 447
 in cardiac rehabilitation, 393-394
 in COPD, 381
 in elderly patient, assessment of, 417
 in rehabilitation, 371
- Occupational therapist, in rehabilitation, 337
- Opinion leaders, evidence-based practice and, 322-323
- Opioids, 197-203
 addiction issues with, 198, 211, 213
 adverse effects of, 235
 agonist-antagonist, 197
 common doses of, 209, 210
 discontinuation of, 202
 in children, 287
 dosing of, around-the-clock *versus* as needed, 198
 equianalgesic, 209, 211
 in patient-controlled analgesia, guidelines for, 249
 for breakthrough pain, 198
 for chronic pain, titration of, 273
 for procedural pain, preemptive administration of, 236
 for surgical pain, 234-236
 for traumatic injury pain, 247
 in children, 285-289
 in patient-controlled analgesia, 198-199
 issues with, tolerance, physical dependence, addiction, 198, 211, 213
 misconceptions about, 196
 mu-agonist, 197
 pharmacokinetics of, 209, 211
 physical dependence on, 198, 211, 213
 in children, 287
 reversal of, 214, 235, 287
 routes of administration for, 199-201
 continuous infusion, 213
 epidural, 213-214
 intramuscular, 199-200
 intraspinous, 200
 intrathecal, 235
 intravenous, 200
 oral, 200-201, 213
 patient-controlled analgesia, 234-236
 spinal, 235
 transdermal, 213
 transmucosal, 213
 selection of, 199
 algorithmic approach to, 209, 212
 side effects of, 201-202, 209
 tolerance to, 198, 211, 213, 236
 undermedication with, prevention of, 235-236
- Orientation, to critical care unit, **131-136**
 buddy system in, 131-132
 models for, 131-132
 other models of, 135
 preceptor program in, 132
 preceptorship in, **131-136**, 132-133
 unit-based educator in, 132
- Orientation programs, in continuing education, 26

- Orthopedic trauma, depression following, 439
from motor vehicle accidents, cost of, 433
interventions in, 440
medical problems following, **433-442**
 circulatory, 436-437
 integumentary, 434-436
 musculoskeletal, 438-439
 prevention of, 439-440
 pulmonary, 437-438
rehabilitation following, early, benefits of,
 440-441
 nursing practice guidelines for, 434
 process of, 434
Orthostatic hypotension, in spinal cord injury, 405
Outcomes, indicators of, in pain management,
 160
 in rehabilitation, 338-339
 in severe brain injury, 421-424
Outcomes research, attribution of cause and effect in,
 492
 basic model for, 492
 measurement issues in, errors, 491-492
 reliability, 491
 rules and measurement, 490-491
 validity, 490-491
nurse-sensitive, classification of, 487
 conceptualization of, 490
 context of, 488-490
 improvement of practice and, **487-495**
 indicators for, patient-focused, 487-488
 initiatives in standards and language for,
 487-490
 outcomes in, 488-489
 perspectives of, 488-490
use of, in improvement of clinical practice, 492-495
 determination of applicability, 493-494
 models for, 493
Oxycodone, controlled release (OxyContin), in
 balanced analgesia, 201
Oxygen, for cardiac chest pain, 266
 supplemental, in COPD, 380

Pain, acute, defined, 167
 in development of chronic pain, 254
 versus chronic, 167-168
assessment of, **181-194**
 behavioral indicators of, 188-190
 defined, 182
 documentation of, 190-191
 guidelines for, 190, 192
 issues in, 182-183
 literature review of, 183-186
 measurement tools for, 186-190
 multidimensional tools in, 188
 nursing assessment and flow sheet for, 191
 physiologic indicators of, 188-190
 practitioner knowledge and attitudes in,
 321-322
 rating scales for, 183
 recommendations for, 190, 192
 timing of, 190
 tools for, 324
 unidimensional scales for, 186-188

chronic, following traumatic injury, 254-255
 in critical care setting, **271-280**
cognitive-evaluative component of, cortical
 processing of, 176
definitions of, 233
gate control theory of, 174
in critically ill patients, causes of, 181
inflammatory, 233
inhibition of, neurotransmitters in, 174-175
 receptors in, 174-175
in traumatic injury, **243-257**
management of, assessment in, 273
 medication in, 273
 misconceptions in, 195-196
 principles for, 272-273
mechanisms in, central, 171-175
 peripheral, 168-170
neuropathic, description of, 275
nociceptive, description of, 275
nonpharmacologic treatment of, cognitive and
 behavioral techniques, 221-225
 cutaneous interventions, 225-228
 distraction, 221-223
 relaxation, 221, 223-225
pathophysiology of, **167-179**
 acute *versus* chronic pain, 167-168
 central mechanisms in, 171-176
 implications for nursing practice, 176-177
 peripheral mechanisms in, 168-170
peripheral sensitization in, 233-234
physiology of, nurses' knowledge, for medication
 administration, 177
postoperative, therapeutic touch and, 357-359
procedural, in children, local anesthetics for,
 290
 parents' role in, 289-290
 local anesthetics for, 236-237
 nonsteroidal antiinflammatory drugs for,
 236
 opioids for, 234-236, 239
 relaxation for, 237
research on, evidence-based practice and,
 541-546
 sensory-discriminative component of,
 affective-motivational, 176
 cortical processing of, 176
 surgical, local anesthetics for, 236-237
 nonsteroidal antiinflammatory drugs for, 236
 opioids for, 234-236, 239
 relaxation for, 237
 surgical and procedural, management of,
 233-242
 undertreatment of, in cancer, 272
 nurses and, 177
Pain management, CareMaps for, 302-303
 clinical pathways for, 302-303
 clinical protocols for, 301-302
 documentation of, 303-304
 evidence-based practice for, **319-327**
 in hip fracture rehabilitation, of elderly patient,
 416
 organizational perspective, **297-309**
 delivery systems in, 298-300
 evaluation of outcome and, 306-307
 practitioner, 298

- processes supporting, 304-306
 - change of shift report and, 304-306
 - collaboration, 306
 - informal communication, 306
 - nurse discretion, 306
- staffing, 298
- standards, 300-304
 - structures supporting, 297-304
- patient satisfaction with, studies of, 314-316
- patients rights and, 299-300
- process and outcome management in, 160
- quality improvement approach to, **311-317**
- standards and guidelines for, Agency for Health Care Policy and Research, 157
 - Joint Commission on Accreditation of Healthcare Organizations, 157
 - specialty organizations, 157-158
- standards in, for care, 300-301
- Pain-O-Meter (POM), in pain assessment, 188
- Pain thermometer, in pain assessment, 187
- Palliative care, definition of, 580
 - in end-of-life care, role of, 580
 - in intensive care unit, interdisciplinary approach to, admission in, 582-583
 - bereavement and family support in, 583
 - decline and ethics consultation in, 583
 - fluctuation of condition in, 582-583
 - withholding or withdrawing of support in, 582-583
 - medical model for, four-phase, 581-582
 - WHO model for, 580
- Paralytic ileus, in spinal cord injury, 406
- Parent-controlled analgesia, in children, 288-289
- Parents, support role of, in painful procedure, 289-290
- Parkland Health and Hospital System, internship in critical care and trauma. *See also Internship in critical care and trauma.*
 - residency in critical care, 40-45. *See also Residency in critical care.*
 - success of program, 44-45
 - resource sharing in, 45
- Patient, pain management for, 314-316
 - empowerment in, 322
 - self-report in, 182-183, 186, 273-274, 324
- Patient and family education, advanced practice nurse role in, 86-87
 - barriers to, changes in nursing resources, 86
 - cultural and language, 85-86
 - environmental stress, 85
 - patient and family crisis, 84-85
 - education and learning in, adult learning theory in, 87-88
 - assessment in, 88
 - family participation in, 90
 - Internet in, 90-91
 - teachable moments in, 88-89
 - teaching tools and strategies in, 89-90
 - historical traditions of, 83-84
- Patient care technician. *See also Patient Care Technician Critical Care Program.*
 - annual competency-based program for, 111
 - critical care program for, paramedics and emergency technicians and, 113
 - decentralization *versus* centralization of, 111-112
 - financial implications of, 112-113
 - in University of Chicago Hospitals, critical care program for, 110-114. *See Patient care technician Critical Care Program.*
 - nursing implications of, 113-114
 - performance checklist for, 115-118
 - role of, 109-110
 - termination of, 112
- Patient Care Technician Critical Care Program, clinical
 - monitoring and evaluation of, 111
 - completion criteria in, 111
 - Core Orientation in, 110-111
 - in patient centered care model, 108-109
 - interview process for, 110
 - teaching format in, 110
- Patient-controlled analgesia (PCA), in elderly patients, 248
 - in traumatic injury pain, 247-249
- opioids in, 198-199, 234-235
 - dosing of, 249
- Patient education, by ICU nurse, 156
 - in pain management, materials for, 299
- Patients rights, in pain management, 299-300
- Patient teaching, computer-assisted, 80
- Pediatric patient. *See also Children: Newborn.*
 - pain management in, **281-295**
- Peripheral pain, nociceptive primary afferent fibers in, 168-170
- Peripheral sensitization, in pain, 233-234
 - inflammatory response in, 169-170
- Phantom limb pain, postamputation, 254
- Phenomenology, in learning, 2-4
- Physiatrists, in rehabilitation, 337
- Physical dependence, on opioids, 198, 211, 213
 - on opioid therapy, 277
- Physical therapy consultation, for activity/exercise program, in COPD, 383
- Platelet inhibitors, for cardiac chest pain, 266
- Pneumonia, nosocomial, 367
- Poikilothermia, in spinal cord injury, 405-406
- Polypharmacy, elderly patient, hip fracture rehabilitation and, 416
- Preceptor, in critical care education, 21
 - in graduate nursing education, 123-124
 - in orientation to critical care unit, **131-136**
 - documentation of completion, 134
 - mentoring of, 132-133
 - orientee and, 132-133
 - selection of, 132
 - training of, education process in, 133-134
 - participant roles in, 133
 - mentoring *versus*, 124
- Preceptorship, definition of, 132
 - in orientation to critical care, basic competencies in, 135
 - critical thinking questions in, 134
 - in orientation to critical care unit, 132-133
 - advantages of, 134-135
 - disadvantages of, 135
 - future enhancements of, 135
 - preceptor selection for, 132
 - preceptor training for, 133-134
- Prejudice, 64-65
- Prescriptions, preprinted, for pain management, 298

- Pressure ulcers. *See also Skin care.*
debridement of, research evidence in, 553
definition of, 435, 547
epidemiology of, 555
from immobility, 366-367
grading and staging systems for, 547
incidence and prevalence of, 547
in orthopedic trauma, etiology of, 435-436
prevention of, 455
prevention and treatment of, in University of Colorado evidence-based practice model, 556-567
research evidence and, 547-554
prevention of, research evidence in, high-tech pressure relief in, 551-552
low-tech constant pressure supports in, 550-551
pressure-relieving surfaces in, 549-550
systematic reviews in, 549-550
techniques for, 548
risk calculators for, consensus in, 548
statistical methods in, 548
treatment of, algorithm for, 562, 564-565
research evidence in, 552-553
wound dressings for, research evidence in, 553
Process, indicators of, in pain management, 160
Professional organizations, mentoring relationship opportunities in, 127-128
Propofol (Diprivan), adjuvant, in balanced analgesia, 204
during painful procedures, 238-239
Protégé, interaction with mentor, 120
Pulmonary embolism, following orthopedic trauma, 436-437
Pulmonary rehabilitation, 370
after COPD exacerbation, 375-387
in COPD, goals in, 376
self-efficacy for, 377-378
self-management of breathing in, 380-381
traditional models of, 376-377

Quality improvement, principles of, 311-312
Quality improvement program, for pain management, 312-314
development of, 313-314
guidelines for, 312-313
multidisciplinary committee for, 313
patient satisfaction in, 314-316
process of, 313-314
staff education in, 314

Rancho Level of Cognitive Function, and emergence from coma, 425
Rehabilitation, after hip fracture, 411-419
after orthopedic trauma, secondary problems in, 433-442
after severe brain injury, 421-431
after spinal cord injury, 399-409
and rehabilitation nursing, 335-340
cardiac, 389-397
care delivery in, 337-338
community re-entry in, 449-461

definition of, 336
ethical issues and, 341-347
goals of, 336
iatrogenic complications in, 365-373
of survivor, 349-355
philosophy of, 336, 369
pulmonary, 375-387
teams in, interdisciplinary, 415, 452-453
multidisciplinary, 337-338
therapeutic touch and, 357-363
Rehabilitation nursing, definition of, 336
Relaxation techniques, for pain, components of, 223
imagery, 224-225
principles in, 224
slow rhythmic breathing, 224
for procedural pain, 237, 239
for surgical pain, 237, 239
Remifentanyl, for pain, 199
Research. *See also Critical care research.*
in critical care education, 54-55, 100-101
on clinical pathways, 59
on mentoring, 126-127
on simulation, in teaching, 100-101
translation into practice, considerations for critical care investigators, 587-604. *See also Evidence-based practice.*
Thunder Project II on pain, 541-546
nurse role in, 545
pain descriptors in, 544-545
patients in, 542
procedure evaluation in, 543-544
suctioning in, 543
turning procedure in, 542-543
wound dressing change and drain removal in, 543
Research strategies, for clinicians, 605-615
barriers to, data collection, 613-615
motivation and, 613
protocol development, 611-612
in service setting, capturing clinical questions, FOCUS method for, 608-609
STICK method for, 607-608
literature review in, 610, 612
prioritizing clinical questions and, 608, 610-611
question and solution generation, 606-607
research teams for, 610-611
Research utilization
adopters in, types of, 482-483
concept of, 475-476
as interactive process, 476
evidence-based practice and, 479-480, 476
history of, 497
literature review, clinicians perspective in, 477
concept in, 475-476
predictors and facilitators in, 476
qualitative studies in, need for, 477
quantitative studies in, 476
literature review of, 475-477
meaning of, 475-485
typology of, definition of, 482
description of project, 478
nurses' perceptions in, 479-482
buying into process and, 481
involvement and, 481
judgments and, 480-481

- keeping up and, 481
 - knowledge sources and, 480
 - making a difference, 481-482
 - need and, 479-480
 - preliminary, adoption in, 482-483
 - felt need in, 482
 - institutional guidelines and, 482
 - qualitative framework for, ethnographic methods in, 477-478
- Residency in critical care, Parkland Health and Hospital System, 40-45
 - education-related components of, 41-43
 - evaluation methods in, 44
 - management-related components of, 40-41
 - nurse educators and preceptors in, 41-44
 - resource requirements and employment contract in, 44
- Resistant learners, **137-146**. See also *Learning, resistance to*.
 - group, 145
 - management of, principles in, 144
 - recognizing, 140
- Resources, organizational, for pain management, 299
- Respiratory depression, opioid-related, 202-203
- Respiratory function, rehabilitation and, 370
- Rest, in COPD, 380-381
 - in rehabilitation, 371
- Return to work, cardiac rehabilitation and, 395
- Self-awareness, in culturally competent care, 522, 527
- Self-efficacy, theory of, 377-378
- Self-help groups, in community re-entry, after critical illness, 454
- Self-report, of chronic pain, 273-274
 - of pain, 182, 186, 324
 - nurses' acceptance of, 183
 - studies of, 183
- Sensitization, central, in pain, 172-174
- Sensory Modality Assessment Rehabilitation Technique (SMART), and emergence from coma, 425, 427
- Sensory Stimulation Assessment Measure (SSAM), and emergence from coma, 425-426
- Severe brain injury (SBI), clinical decisions in, factors in, 428-420
 - level of consciousness and, assessment of, 429
 - community re-entry and, stressors in, 453-454
 - definition of, 421
 - outcomes in, 421-424
 - akinetic mutism, 424
 - coma, 422, 424-428
 - disability, 422-424
 - locked-in syndrome, 424
 - minimally conscious state, 423-424
 - mortality, 422
 - vegetative state, 422-423
 - therapeutic interventions in, objectives of, 429
 - optional, 430
 - prognosis and, 429-430
 - standard, 429-430
- Sexuality, COPD and, 384
 - spinal cord injury and, 407
- Simulation, as teaching strategy, future of, 102
 - research on, 100-101
 - for certification and licensure, 102
 - in teaching critical thinking, **93-103**
 - advantages of, 97-98
 - applications of, 96-97
 - challenges to, 97-98
 - full-body, computer simulators for, 97
 - learner and, 99-100
- Skin, functions of, 435
 - in orthopedic trauma, 434-435
 - fracture blisters and, 435-437
 - pressure ulcer prevention in, 434
 - integrity of, immobility effect on, 366-367
 - in case management study, 446
 - spinal cord injury and, 407
- Skin care. See also *Pressure ulcers*.
 - evidence-based practice in, **555-568**
 - benchmarking data in, 557
 - chart review in, 558
 - clinical expertise in, 557
 - cost-effectiveness analysis in, 557
 - infection control data in, 557-558
 - pathophysiologic findings in, 557
 - patient preferences in, 558
 - quality improvement and risk data in, 558
 - research in, 557
 - standards for, 558
 - translation of research into practice and, 558-559
 - University of Colorado Hospital model for, 556-558
 - champions of change in, 562
 - champions of change team in, 559-560
 - changes in, 562-564
 - continuing review of skin care task force in, 567
 - evaluation of goals in, ongoing, 564, 567
 - knowledge and documentation of in, 560-562
 - knowledge and inpatient flow sheet changes in, 562
 - skin care team in, 559
 - treatment algorithm in, 562, 564-565
- Sleep, deprivation of, pain and, 153
 - in COPD, 380-381
 - in rehabilitation, 371
- Smoking cessation, in cardiac rehabilitation, 393
 - in COPD, 382
- Social history, in assessment, of chest pain, 260
- Social support, of survivors, 351
- Space, personal, in culturally competent care, 526
- Spacers, in respiratory medication administration, 382
- Speech pathologist, in rehabilitation, 337
- Spinal cord, pain transmission in, mechanisms of, 171-172
- Spinal cord injury (SCI), advances in care following, **399-409**
 - classification of, 400-401
 - anterior cord syndrome, 401
 - Brown-Séquard syndrome, 401
 - central cord syndrome, 400-401
 - functional, American Spinal Injury Association, 401
 - complications of, cardiovascular/circulatory, 403-405
 - deep venous thrombosis, 405
 - gastrointestinal, 406
 - genitourinary, 406-407
 - musculoskeletal, 407-408
 - psychosocial, 408

- Spinal cord injury (*Continued*)
- pulmonary, 402-404
 - sexuality/fertility, 407
 - skin integrity compromise, 407
 - thermoregulatory, 405-406
 - incidence of, 399
 - in motor vehicle accidents, 399
 - nursing management of, 401-402
 - survival of, 399-400
 - vertebral injuries and, 400
- Spinal shock, in spinal cord injury, 403
- Spiritual domain, of survivors, 351-352
- Staff, for pain management, 298
- Stereotyping, 64-65
- Stress, environmental, 85
- in community re-entry, after critical illness, 453-454
 - in critical care unit, 366
 - in nursing, at home, 465
 - at work, 464-465
 - causes of, 463-465
 - coping strategies for, 466-468
 - evaluation of, 465-466
 - physical symptoms of, 465-466
 - psychologic changes and, 465-466
 - role strain in, 463-464
- Stress testing, for cardiac chest pain, 267
- Stress ulcers, iatrogenic, 366
- in spinal cord injury, 406
- Support groups, in community re-entry, after critical illness, 454
- Survival, of life-altering event, **349-355**
- issues for survivors and, 350-352
 - nursing practice and, 352-354
 - research implications of, 354
- Survivor, as concept, 350
- description of, 349
 - issues for, 350-352
- Symptoms, management of, for survivors, 350-351
-
- Teachable moments, 88-89
- Teachers, mentoring of, 124
- Teaching, for critical thinking, **93-103**
- in crisis, **83-92**. See also *Patient and family education*.
 - teaching encounter model in, 127
- Teaching critical care, at baccalaureate level, 13-15
- at master's level, 13-15
 - controversies in, 21
 - historical overview of, 15-16
 - in preparation of next generation, 13-15
 - to undergraduate and graduate students, **13-24**
 - current status, 16-21
- Teaching strategy(ies). See also *Simulation*.
- case studies, 8-10
 - concept mapping, 7-8
 - for adults, 89-90
 - learning preference assessment and, 4-6
 - learning theories and, **1-11**
 - mentorship. See *Mentorship*.
 - nursing narratives, 8
 - problem-based learning, 6-7
 - simulation, 96-100. See also *Simulation*.
 - summary of, 89
- Thalamus, in pain, perception of, 174
- Theophylline, for COPD, 382
- Therapeutic touch, after Whipple procedure, **357-363**
- anxiety reduction with, 358-359
 - for postoperative pain, 357-359
 - history and description of, 357
 - in burn patients, 359
 - in Whipple procedure, 359-362
 - case study of, 360-361
 - literature review and related research, 357-359
 - technique, 360-361
- Thermoregulation, in spinal cord injury, 405-406
- Time, concept of, in culturally competent care, 526-527
- Tolerance, to medication, defined, 277
- to opioids, 198, 211, 213, 236
 - in children, 286
- Topical anesthetics, adjuvant, in pain management, 203
- Tramadol, for pain, in intensive care, 217
- Transcutaneous electric nerve stimulation (TENS), for pain, allergic dermatitis from, 227
- principles for, 227-228
 - types of, 227
- Transdermal administration, of opioids, 213
- Transmucosal administration, of opioids, 213
- Trauma care, pain management in, **243-257**
- assessment and notation algorithm for, 244, 246
 - clinical pearls for, 255-256
 - continuous analgesic infusions in, 247
 - difficulties in, 243-247
 - fentanyl in, 247
 - future research in, 255
 - in patients with altered levels of consciousness, 246-247
 - in resuscitative and early acute phases, 244
 - local anesthetics in, epidural, 250-253
 - nerve blocks for, 253
 - opioids in, epidural, 250-252
 - intravenous, 247
 - patient-controlled analgesia in, 247-249
 - patient responses to pain and, 244, 246
 - phases of, 244-245
 - primary options, 247
 - regional anesthetic methods, 250-253
 - strategies for, 244, 245
- Treadmill testing, for return to work, postmyocardial infarction, 395
-
- Undergraduate education, for critical care practice, 17-19
- mentorship in, 123
 - preparation for critical care, 13-15
- Undertreatment, of pain, in children, 282
- of terminally ill patient, 203
- Unlicensed assistive personnel, education, training, and use of, **105-118**
- American Association of Critical Care Nurses position on, 107
 - American Nurses Association position on, 106-107
 - Illinois State Nurse Practice Act on, 106
 - history of, 106
 - integration in critical care, recommendations for, 114

- literature review of, 106-108
- University of Chicago Hospitals and. *See Patient care technician.*
 - orientation curricula for professional nurses and, 108-109
 - patient care technician role in, 109-114
 - patient centered care model and, 108-109
- use of, 107-108
 - for cost containment, 105-106
 - for registered nurse shortage, 105-106
 - in future health care environment, 106
 - liability and, 107
- Urinary retention, in elderly patient, and hip fracture rehabilitation, 418
- Urinary tract infection, nosocomial, 368

- Values clarification, in pain management, 158
- Vegetative state (VS), after severe brain injury, 422-423
 - emergence from, 427-428
- Ventilation, stressors in, 366

- Ventriculostomy, catheter in, nosocomial infection from, 368
- Vibration, for pain, mechanism of, 226
 - principles in, 226-227
- Virtual reality, in education, 78
- Visual analogue scale (VAS), in pain assessment, 183-188
 - studies of, 183-185
- Vital signs, pain as fifth, 303-304
- Vocational rehabilitation, for community re-entry, 459

- Web-enabled education, 76-77
- Weight training, for COPD, 384
- Western Neurosensory Stimulation Profile (WNSSP), and emergence from coma, 425-427
- Whipple procedure, therapeutic touch in, 359-362
 - patient contract for, 360
 - response to, 360-362
 - technique for, 360
- Wound dressings, for pressure ulcers, research for, 553